SHORT PROJECT PHASE THREE HAFIZ NAVEED UDDIN, KAIRIZ CYBER TECHNOLOGIES,

Phase 3: Security Hardening Report

Objective: Implemented measures to enhance network and endpoint security through segmentation, patch management, access controls, and awareness training.

Tools Used: Firewall configurations, VLANs, patch management tools, multi-factor authentication (MFA), endpoint security solutions, host-based firewalls, intrusion detection/prevention systems (HIDS/HIPS).

Activities Performed:

1. Network Segmentation and Traffic Control

- o Implemented network segmentation to limit attack spread.
- Created VLANs and configured firewall rules for traffic control.

2. Patch Management and Maintenance

- Ensured all devices and software are regularly updated with the latest patches and security updates.
- o Established a patch management process for ongoing maintenance.

3. User Permissions and Access Controls

- o Reviewed and updated user permissions and access controls.
- o Implemented the principle of least privilege for enhanced security.

4. Authentication and Endpoint Security

- Enforced strong authentication mechanisms, including multi-factor authentication (MFA).
- Installed and configured endpoint security solutions such as antivirus and antimalware software.

5. Host-based Firewalls and Intrusion Detection/Prevention Systems (HIDS/HIPS)

 Enabled and configured host-based firewalls and intrusion detection/prevention systems.

6. Security Policies and Procedures

 Developed and implemented comprehensive security policies and procedures to guide security practices.

7. Employee Security Awareness

 Conducted security awareness training sessions for employees to educate them on security best practices and potential threats.

8. Backup and Disaster Recovery

o Implemented and tested a robust backup and disaster recovery plan to ensure data availability and recovery during incidents.

Conclusion: The completion of Phase 3 has significantly strengthened the security posture of the network and endpoints by implementing robust security measures and enhancing security awareness among employees.